

OTPE

RAW SEQUENCE LISTING DATE: 03/12/2002 PATENT APPLICATION: US/10/025,730 TIME: 10:49:40

Input Set : N:\Crf3\RULE60\10025730.raw
Output Set: N:\CRF3\03122002\J025730.raw

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1 <110> APPLICANT: Tang, Y. Tom
             Guegler, Karl J.
      2
              Corley, Neil C.
      3
              Gorgone, Gina A.
      5 <120> TITLE OF INVENTION: CALCIUM BINDING PROTEIN
      6 <130> FILE REFERENCE: PF-0635 US
      7 <140> CURRENT APPLICATION NUMBER: 10/025,730
     8 <141> CURRENT FILING DATE: 2001-12-18
                                                             ENTERED
     10 <150> PRIOR APPLICATION NUMBER: US/09/190,965
     11 <151> PRIOR FILING DATE: 1998-11-13
     13 <160> NUMBER OF SEQ ID NOS: 5
     14 <170> SOFTWARE: PERL Program
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 337
     18 <212> TYPE: PRT
     19 <213> ORGANISM: Homo sapiens
W--> 20 <220> FEATURE: -
     21 <223> OTHER INFORMATION: 3734805
     22 <400> SEQUENCE: 1
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     24
     25
              Glu Ile Val Lys Ile Leu Lys Asp Asn Leu Ala Ile Leu Glu Lys
     26
                               20
                                                   25
     27
              Gln Asp Lys Lys Thr Asp Lys Ala Ser Glu Glu Val Ser Lys Ser
     29
              Leu Gln Ala Met Lys Glu Ile Leu Cys Gly Thr Asn Glu Lys Glu
     30
                               50
     31
              Pro Pro Thr Glu Ala Val Ala Gln Leu Ala Gln Glu Leu Tyr Ser
     32
                                                                        75
                                                   70
     33
              Ser Gly Leu Leu Val Thr Leu Ile Ala Asp Leu Gln Leu Ile Asp
     34
     35
              Phe Glu Gly Lys Lys Asp Val Thr Gln Ile Phe Asn Asn Ile Leu
     36
                               95
                                                  100
     37
              Arg Arg Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Ile Ser
     38
                                                  115
                              110
     39
              Ala His Pro His Ile Leu Phe Met Leu Lys Gly Tyr Glu Ala
     40
                              125
                                                  130
     41
              Pro Gln Ile Ala Leu Arg Cys Gly Ile Met Leu Arg Glu Cys Ile
     42
                              140
                                                  145
              Arg His Glu Pro Leu Ala Lys Ile Ile Leu Phe Ser Asn Gln Phe
     43
     44
                                                  160
     45
              Arg Asp Phe Phe Lys Tyr Val Glu Leu Ser Thr Phe Asp Ile Ala
                              170
                                                  175
```

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Input Set : N:\Crf3\RULE60\10025730.raw Output Set: N:\CRF3\03122002\J025730.raw

```
47
         Ser Asp Ala Phe Ala Thr Phe Lys Asp Leu Leu Thr Arg His Lys
48
                          185
                                               190
                                                                     195
49
         Val Leu Val Ala Asp Phe Leu Glu Gln Asn Tyr Asp Thr Ile Phe
50
                          200
                                               205
                                                                     210
51
         Glu Asp Tyr Glu Lys Leu Leu Gln Ser Glu Asn Tyr Val Thr Lys
52
                          215
                                               220
                                                                     225
53
         Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Ile Leu Asp Arg His
54
                          230
                                               235
                                                                     240
55
         Asn Phe Ala Ile Met Thr Lys Tyr Ile Ser Lys Pro Glu Asn Leu
56
                                                                     255
                                               250
57
         Lys Leu Met Met Asn Leu Leu Arg Asp Lys Ser Pro Asn Ile Gln
58
                          260
                                               265
                                                                     270
59
         Phe Glu Ala Phe His Val Phe Lys Val Phe Val Ala Ser Pro His
60
                          275
                                                                     285
                                               280
         Lys Thr Gln Pro Ile Val Glu Ile Leu Leu Lys Asn Gln Pro Lys
61
62
                          290
                                               295
                                                                     300
63.
         Leu Ile Glu Phe Leu Ser Ser Phe Gln Lys Glu Arg Thr Asp Asp
64
                          305
                                               310
                                                                     315
65
         Glu Gln Phe Ala Asp Glu Lys Asn Tyr Leu Ile Lys Gln Ile Arg
66
                          320
                                               325
                                                                     330
67
         Asp Leu Lys Lys Thr Ala Pro
                          335
68
70 <210> SEQ ID NO: 2
71 <211> LENGTH: 1344
72 <212> TYPE: DNA
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73 <213> ORGANISM: Homo sapiens

W--> 74 <220> FEATURE: -

75 <223> OTHER INFORMATION: 3734805

76 <400> SEQUENCE: 2

77 cagaaacaga actgcctgtg acagattaag agacaagcaa ggcttggaat ctgagagcaa 60 78 qcaaaqaqaq tqqaaattta caqctqcctt atcattccat attqqaaqaa qaqatttcta 120 79 cacatgaaaa aaatgccttt gtttagtaaa tcacacaaaa atccagcaga aattgtgaaa 180 80 atcctgaaag acaatttggc cattttggaa aaqcaaqaca aaaagacaqa caaqgcttca 240 81 gaagaagtgt ctaaatcact gcaagcaatg aaagaaattc tqtqtqqtac aaacqagaaa 300 82 gaacccccga cagaagcagt ggctcagcta gcacaagaac tctacagcag tggcctgctg 360 83 gtgacactga tagctgacct gcagctgata gactttgagg gaaaaaaaga tgtgacccag 420 84 atatttaaca acatcttgag aagacagata ggcactcgga gtcctactgt ggagtatatt 480 85 agtgctcatc ctcatatcct gtttatgctc ctcaaaggat atgaagcccc acagattgcc 540 86 ttacgttgtg ggattatgct gagagaatgt attcgacatg aaccacttgc caaaatcatc 600 87 ctcttttcta atcaattcag agatttcttt aagtacgtgg agttgtcaac atttgatatt 660 88 gcttcagatg cctttqctac tttcaaggat ttactaacca qacataaagt qttqgtagca 720 89 gacttettag aacaaaatta egacaetatt tttgaagaet atgagaaatt getteagtet 780 90 gagaattatg ttactaagag acagtettta aagetgetag gggagetgat eetggacegt 840 91 cacaactttg ccatcatgac aaagtatatc agcaagccgg agaacctgaa actcatgatg 900 92 aacctccttc gggataaaag tcccaacatc cagtttgaag cctttcatgt ttttaaggtg 960 93 tttgtggcca gtcctcacaa aacacagcct attgtggaga tcctgttaaa aaatcagccc 1020 94 aaactcattg agtttctgag cagcttccaa aaagaaagga cggatgatga gcagttcgct 1080 95 gacgagaaga actacttgat taaacagatc cgagacttga agaaaacggc cccttgaaga 1140 96 gctccccggc ccctgtcaca gtcagtcgtc tcatttgtcc agtttgtaca gtgtgtcatt 1200 RAW SEQUENCE LISTING DATE: 03/12/2002 PATENT APPLICATION: US/10/025,730 TIME: 10:49:40

Input Set : N:\Crf3\RULE60\10025730.raw
Output Set: N:\CRF3\03122002\J025730.raw

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tcagaaagtc atcattcttg ggaagacttt ggaggtgcct atttttctg ctgtaattgt 1260
     97
              tctgggtaga tggagtataa acatttgaat ggaaaaaaat taacctagaa taatatattc 1320
     98
     99
              attttagtca aaaaaaaaa aaaa
                                                                                   1344
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     102 <211> LENGTH: 341
     103 <212> TYPE: PRT
     104 <213> ORGANISM: Mus sp.
W--> 105 <220> FEATURE: -
     106 <223> OTHER INFORMATION: g262934
     107 <400> SEQUENCE: 3
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     109
                 1
                                                     10
     110
               Val Lys Asn Leu Lys Glu Ser Met Ala Val Leu Glu Lys Gln Asp
     111
                                 20
                                                     25
     112
               Ile Ser Asp Lys Lys Ala Glu Lys Ala Thr Glu Glu Val Ser Lys
     113
                                 35
                                                      40
     114
               Asn Leu Val Ala Met Lys Glu Ile Leu Tyr Gly Thr Asn Glu Lys
     115
     116
               Glu Pro Gln Thr Glu Ala Val Ala Gln Leu Ala Gln Glu Leu Tyr
    117
                                 65
                                                      70
     118
               Asn Ser Gly Leu Leu Gly Thr Leu Val Ala Asp Leu Gln Leu Ile
     119
               Asp Phe Glu Gly Lys Lys Asp Val Ala Gln Ile Phe Asn Asn Ile
     120
     121
                                                     100
     122
               Leu Arg Arg Gln Ile Gly Thr Arg Thr Pro Thr Val Glu Tyr Ile
     123
                                110
                                                    115
     124
               Cys Thr Gln Gln Asn Ile Leu Phe Met Leu Leu Lys Gly Tyr Glu
     125
                                125
                                                    130
               Ser Pro Glu Ile Ala Leu Asn Cys Gly Ile Met Leu Arg Glu Cys
     126
     127
                                140
                                                     145
     128
               Ile Arg His Glu Pro Leu Ala Lys Ile Ile Leu Trp Ser Glu Gln
     129
                                155
                                                     160
               Phe Tyr Asp Phe Phe Arg Tyr Val Glu Met Ser Thr Phe Asp Ile
     130
     131
                                170
                                                    175
     132
               Ala Ser Asp Ala Phe Ala Thr Phe Lys Asp Leu Leu Thr Arg His
     133
                                185
                                                     190
     134
               Lys Leu Leu Ser Ala Glu Phe Leu Glu Gln His Tyr Asp Arg Phe
     135
     136
               Phe Ser Glu Tyr Glu Lys Leu Leu His Ser Glu Asn Tyr Val Thr
     137
                                215
                                                     220
     138
               Lys Arg Gln Ser Leu Lys Leu Gly Glu Leu Leu Leu Asp Arg
     139
                                230
                                                     235
     140
               His Asn Phe Thr Ile Met Thr Lys Tyr Ile Ser Lys Pro Glu Asn
     141
                                245
                                                     250
     142
               Leu Lys Leu Met Met Asn Leu Leu Arg Asp Lys Ser Arg Asn Ile
     143
                                                     265
                                260
     144
               Gln Phe Glu Ala Phe His Val Phe Lys Val Phe Val Ala Asn Pro
     145
                                275
                                                     280
     146
               Asn Lys Thr Gln Pro Ile Leu Asp Ile Leu Leu Lys Asn Gln Thr
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Input Set: N:\Crf3\RULE60\10025730.raw
Output Set: N:\CRF3\03122002\J025730.raw

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290
     147
                                                     295
                                                                          300
     148
               Lys Leu Ile Glu Phe Leu Ser Lys Phe Gln Asn Asp Arg Thr Glu
     149
                                305
                                                     310
               Asp Glu Gln Phe Asn Asp Glu Lys Thr Tyr Leu Val Lys Gln Ile
     150
     151
                                320
                                                     325
     152
               Arg Asn Leu Lys Arg Ala Ala Gln Gln Glu Ala
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     156 <211> LENGTH: 339
     157 <212> TYPE: PRT
     158 <213> ORGANISM: Drosophila melanogaster
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     160 <223> OTHER INFORMATION: g1794137
     161 <400> SEQUENCE: 4
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     163
     164
               Lys Ser Leu Lys Glu Ala Ile Asn Ala Leu Glu Ala Gly Asp Arg
     165
                                                      25
     166
               Lys Val Glu Lys Ala Gln Glu Asp Val Ser Lys Asn Leu Val Ser
     167
                                                      40
     168
               Ile Lys Asn Met Leu His Gly Ser Ser Asp Ala Glu Pro Pro Ala
     169
                                 50
                                                      55
               Asp Tyr Val Val Ala Gln Leu Ser Gln Glu Leu Tyr Asn Ser Asn
     170
     171
     172
               Leu Leu Leu Leu Ile Gln Asn Leu His Arg Ile Asp Phe Glu
     173
     174
               Gly Lys Lys His Val Ala Leu Ile Phe Asn Asn Leu Leu Arg Arg
     175
                                 95
                                                     100
     176
               Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Ile Cys Thr Lys
     177
                                110
                                                     115
     178
               Pro Glu Ile Leu Phe Thr Leu Met Ala Gly Tyr Glu Asp Ala His
     179
                                125
                                                     130
     180
               Pro Glu Ile Ala Leu Asn Ser Gly Thr Met Leu Arg Glu Cys Ala
     181
                                140
                                                     145
     182
               Arg Tyr Glu Ala Leu Ala Lys Ile Met Leu His Ser Asp Glu Phe
     183
                                155
                                                     160
     184
               Phe Lys Phe Phe Arg Tyr Val Glu Val Ser Thr Phe Asp Ile Ala
     185
                                170
                                                     175
               Ser Asp Ala Phe Ser Thr Phe Lys Glu Leu Leu Thr Arg His Lys
     186
     187
                                                     190
               Leu Leu Cys Ala Glu Phe Leu Asp Ala Asn Tyr Asp Lys Phe Phe
     188
     189
                                200
                                                     205
     190
               Ser Gln His Tyr Gln Arg Leu Leu Asn Ser Glu Asn Tyr Val Thr
     191
                                215
                                                     220
     192
               Arg Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Leu Leu Asp Arg
     193
                                230
                                                     235
     194
               His Asn Phe Thr Val Met Thr Arg Tyr Ile Ser Glu Pro Glu Asn
     195
                                245
                                                     250
     196
               Leu Lys Leu Met Met Asn Met Leu Lys Glu Lys Ser Arg Asn Ile
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Input Set : N:\Crf3\RULE60\10025730.raw
Output Set: N:\CRF3\03122002\J025730.raw

```
260
     197
                                                     265
                                                                          270
     198
               Gln Phe Glu Ala Phe His Val Phe Lys Val Phe Val Ala Asn Pro
     199
                                                     280
                                275
     200
               Asn Lys Pro Lys Pro Ile Leu Asp Ile Leu Leu Arg Asn Gln Thr
     201
                                290
                                                     295
     202
               Lys Leu Val Asp Phe Leu Thr Asn Phe His Thr Asp Arg Ser Glu
     203
                                305
                                                     310
     204
               Asp Glu Gln Phe Asn Asp Glu Lys Ala Tyr Leu Ile Lys Gln Ile
     205
                                320
                                                     325
     206
               Lys Glu Leu Lys Pro Leu Pro Glu Ala
     207
                                335
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     210 <211> LENGTH: 377
     211 <212> TYPE: PRT
     212 <213> ORGANISM: Caenorhabditis elegans
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     214 <223> OTHER INFORMATION: g1255838
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     217
                                                      10
     218
               Val Lys Thr Leu Arg Glu Val Leu Thr Ile Leu Asp Lys Leu Pro
     219
                                                      25
               Pro Pro Lys Leu Asp Lys Asp Gly Asn Ile Gln Ser Asp Lys Lys
     220
     221
     222
               Tyr Asp Lys Ala Leu Asp Glu Val Ser Lys Asn Val Ala Met Ile
     223
                                                      55
     224
               Lys Ser Phe Ile Tyr Gly Asn Asp Ser Ala Glu Pro Ser Ser Glu
     225
                                                      70
     226
               His Val Val Gln Val Ala Gln Leu Ala Gln Glu Val Tyr Asn Ala
     227
                                                      85
     228
               Asn Ile Leu Pro Met Leu Ile Lys Met Leu Pro Lys Phe Glu Phe
     229
                                 95
                                                     100
     230
               Glu Cys Lys Lys Asp Val Gly Gln Ile Phe Asn Asn Leu Leu Arg
     231
                                                     115
                                110
     232
               Arg Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Leu Gly Ala
     233
                                                     130
     234
               Arg Pro Glu Ile Leu Ile Gln Leu Val Gln Gly Tyr Ser Val Pro
     235
                                140
                                                     145
               Asp Ile Ala Leu Thr Cys Gly Leu Met Leu Arg Glu Ser Ile Arg
     236
     237
                                                     160
     238
               His Asp His Leu Ala Lys Ile Ile Leu Tyr Ser Asp Val Phe Tyr
     239
                                170
                                                     175
                                                                          180
     240
               Thr Phe Phe Leu Tyr Val Gln Ser Glu Val Phe Asp Ile Ser Ser
     241
                                185
                                                     190
     242
               Asp Ala Phe Ser Thr Phe Lys Glu Leu Thr Thr Arg His Lys Ala
     243
                                200
                                                     205
     244
               Ile Ile Ala Glu Phe Leu Asp Ser Asn Tyr Asp Thr Phe Phe Ala
     245
                                215
                                                     220
     246
               Gln Tyr Gln Asn Leu Leu Asn Ser Lys Asn Tyr Val Thr Arg Arg
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/025,730

DATE: 03/12/2002 TIME: 10:49:41

Input Set : N:\Crf3\RULE60\10025730.raw
Output Set: N:\CRF3\03122002\J025730.raw

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